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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/533,328	05/02/2005	Serge Louis Boulet	X-15985	5367	
25885 ELI LILLY &	7590 11/29/2007	EXAMINER			
PATENT DIV	ISION	SOLOLA, TAOFIQ A			
P.O. BOX 628 INDIANAPOI	8 JIS, IN 46206-6288	ART UNIT	PAPER NUMBER		
	, · · · · · · · ·	1625			
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			NOTIFICATION DATE	DELIVERY MODE	
		11/29/2007	ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patents@lilly.com

				Application	No.	Applicant(s)			
				10/533,328		BOULET, SERGE LOUIS			
•	Of	fice Action Summa	ry ·	Examiner		Art Unit			
	* 1			Taofiq A. S		1625			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status	•					•			
1)	Respo	onsive to communication	(s) filed on 25 Oc	ctober 2007					
2a)□		This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	ion of	Claims							
4)	4) Claim(s) 1,5 and 31 is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	5) Claim(s) is/are allowed:								
		(s) <u>1.5 and 31</u> is/are reje		•					
		(s) is/are objected							
8)	Claim	(s) are subject to	restriction and/or	election re	quirement.				
Applicati	ion Pa	pers							
9)🖂	The sp	ecification is objected to	by the Examiner	r.					
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ι	under	35 U.S.C. § 119				•			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
1. Certified copies of the priority documents have been received.									
2. Certified copies of the priority documents have been received in Application No									
3. Copies of the certified copies of the priority documents have been received in this National Stage									
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
		•							
Attachment(s)									
1) 🔯 Notic	ce of Ref	erences Cited (PTO-892)			4) Interview Summary				
		iftsperson's Patent Drawing Re Disclosure Statement(s) (PTO/S			Paper No(s)/Mail Da 5) Notice of Informal P				
		Mail Date <u>2</u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		6) Other:	***			

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Claims 1, 5, 31 are pending in this application.

Claims 1-4, 6-30, 32-44 are cancelled.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5, 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Molloy et al., US 4,018,895, in view of James, US 5,776,969 and King, Med Chem: Principle and Practice (1994), p. 206-208.

Applicant claims compounds of formula I and their composition as serotonin and norepinephrine reuptake inhibitors.

Determination of the scope and content of the prior art (MPEP 2141.01

Molloy et al., teach similar compounds and their compositions as serotonin and norepinephrine reuptake inhibitors. See column 1, lines 27-38 and table 1.

Ascertainment of the difference between the prior art and the claims (MPEP 2141.02)

The difference between the instant invention and that of Molloy et al., is that in compounds of Molloy et al., applicant replaced -CH=CH- with -S- in naphthyl (position Y) ring and CH₃ with OH or F at position Z.

Finding of prima facie obviousness--rational and motivation (MPEP 2142.2413)

However, James teaches benzothienyl at Y, and King teaches that replacement of - CH=CH- with -S- in a ring or replacing CH₃ with OH or F is expected to produce compounds having similar biological activity (bioisosterism). See page 208, univalent and ring equivalents.

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See also, *Ex parte Engelhardt*, 208 USPQ 343 (Bd. Pat. App. & Int., 1980); *In re Merck*, 231 USPQ 375 (Fed. Cir. 1986). Therefore, the instant invention is prima facie obvious from the teachings of Molloy et al., and King. One of ordinary skill in the art would have known to replace -CH=CH- with -S- in a ring or replacing CH₃ with OH or F at the time the instant invention was made. The motivation is from knowing that -CH=CH- and -S- or CH₃ and OH/F are bioisosteres equivalents.

Alternatively, given the teachings of the prior arts, it would have been obvious to try above substitutions at the time the invention was made.

When there is motivation

to solve a problem and there are a finite number of identified, predictable solutions, a person of ordinary skill has good reason to pursue the known options within his or her technical grasp. If this leads to anticipated success, it is likely the product not of innovation but of ordinary skill and common sense. In that instance the fact that a combination was obvious to try might show that it was obvious under [35 USC] 103.

KSR Int'l Co. v. Teleflex Inc., 127 S.Ct 1727,----, 82 USPQ2d 1385, 1397 (2007).

Alternatively, applicant has done nothing more than substitutes known bioisosteres equivalents in the compounds of Molloy et al. However, such substitution is obvious from the prior arts. "When a patent claims a structure already known in the prior art that is altered by the mere substitution of one element for another known in the field, the combination must do more than yield a predictable result." *United States v. Adams*, 383 U.S. 49, 50-51 (1966). Cited in *KSR Int. Co. v. Teleflex Inc*, 550 U.S. ----, 82 USPQ2d 1385 (2007). The combination of familiar

elements according to known methods is likely to be obvious when it does no more than yield predictable results." KSR, supra.

Double Patenting Rejection

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1, 5, 31 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 6-7, 22, 34 of copending Application No. 10/532,765 in view of King, Med Chem: Principle and Practice (1994), p. 206-208. This is a provisional obviousness-type double patenting rejection.

Applicant claims compounds of formula I and their composition as serotonin and norepinephrine reuptake inhibitors.

Determination of the scope and content of the prior art (MPEP 2141.01

In US '765 applicant claims similar compounds and their compositions as serotonin and norepinephrine reuptake inhibitors.

Ascertainment of the difference between the prior art and the claims (MPEP 2141.02)

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The difference between the instant invention and that of US '765 is that applicant claims a racemate structure instead of the isomers in US '765, and replaced -N= with -CH= in the ring at Y (benzothieno instead of thienopyridyl in US '765).

Finding of prima facie obviousness--rational and motivation (MPEP 2142.2413)

However, King teaches that replacement of -N= with -CH= in a ring is expected to produce compounds having similar biological activity (bioisosterism). See page 208, ring equivalents. See also, *Ex parte Engelhardt*, 208 USPQ 343 (Bd. Pat. App. & Int., 1980); *In re Merck*, 231 USPQ 375 (Fed. Cir. 1986). The instant specification, page 4, lines 25-28, states the compound (structure) embraces the individual isomers.

Specification

The specification is objected to due to many pages with missing sections. For example, pages 1, 114, 120, 126, 132, 138 and 144. The specification has not been checked to determine all the bad pages, and applicant may use the public pair-system to ascertain the damage. A replacement specification is hereby required.

Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taofiq A. Solola, PhD. JD., whose telephone number is (571) 272-0709.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres, can be reached on (571) 272-0867. The fax phone number for this Group is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1600.

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TAOFIQ SOLOLA
PRIMARY EXAMINER

Group 1625

November 20, 2007